

Claim Amendment Summary**Claims pending**

- At time of the Action: 1-17, 19-35, 37-47, and 49-79.
- After this Response: 1-17, 19-35, 37-47, and 49-79.

Canceled claims: none.

Amended claims: none.

New claims: none.

Pending claims are listed as follows:

1. **(PREVIOUSLY PRESENTED)** A method of formatting a message for exchange between entities on a network, the method comprising:

generating a message envelope;

generating contents of the message envelope, the contents comprising data structures, each data structure identifies which entity is intended to process the data structure when that entity receives the message envelope over the network, wherein at least one of the data structures includes an explicit request for that entity to perform a task.

2. **(PREVIOUSLY PRESENTED)** A method as recited in claim 1, wherein each data structure specifies whether the entity that is intended to process the data structure must understand such data structure.

3. **(ORIGINAL)** A method as recited in claim 1, wherein:
the message envelope has beginning and ending envelope tags;
the contents of the message envelope is between the envelope tags.

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2 **4. (PREVIOUSLY PRESENTED)** A method as recited in claim 1,
3 wherein the contents include:

4 a header data structure;

5 a body data structure, the body data structure including message data.

6
7 **5. (ORIGINAL)** A method as recited in claim 4, wherein:
8 the header data structure has beginning and ending header tags;
9 the body data structure has beginning and ending body tags.

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11 **6. (PREVIOUSLY PRESENTED)** A method as recited in claim 4,
12 wherein:

13 the header data structure is intended for at least one intermediate entity;

14 the body data structure is intended for a destination entity.

15
16 **7. (ORIGINAL)** A method as recited in claim 1 further comprising
17 sending the message envelope to an entity on a network.

18
19 **8. (PREVIOUSLY PRESENTED)** A method as recited in claim 1,
20 wherein the data structures lack executable instructions for performing the task.

21
22 **9. (ORIGINAL)** A method as recited in claim 1, wherein the data
23 structures are expressed in a markup language.

1 **10. (ORIGINAL)** A method as recited in claim 1, wherein the data
2 structures are expressed in XML.

3
4 **11. (ORIGINAL)** A method as recited in claim 1 further comprising:
5 formatting the message envelope for sending over a network using HTTP;
6 sending the message envelope to an entity on the network by using HTTP.

7
8 **12. (ORIGINAL)** A method as recited in claim 1 further comprising:
9 binding the message envelope into a HTTP request;
10 sending the message envelope to an entity on the network by using HTTP.

11
12 **13. (ORIGINAL)** A method as recited in claim 1 further comprising:
13 binding the message envelope into a HTTP response;
14 sending the message envelope to an entity on the network by using HTTP.

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16 **14. (ORIGINAL)** A method as recited in claim 3, wherein the envelope
17 tags identify the message envelope.

18
19 **15. (PREVIOUSLY PRESENTED)** A method as recited in claim 5,
20 wherein the header tags identify the header data structure.

21
22 **16. (PREVIOUSLY PRESENTED)** A method as recited in claim 5,
23 wherein the body tags identify the body data structure.
24
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1 **17. (PREVIOUSLY PRESENTED)** A method as recited in claim 4,
2 wherein the message envelope has the following format:

3 <Envelope label>

4 <Header label>

5 *header data*

6 </Header label>

7 <Body label>

8 *message data*

9 </Body label>

10 </Envelope label>

11 the <Envelope label> being a beginning envelope tag, the </Envelope
12 label> being an ending envelope tag, and the Envelope label identifying the
13 message envelope;

14 the <Header label> being a beginning header tag, the </Header label> being
15 an ending header tag, the Header label identifying the header data structure;

16 the <Body label> being a beginning body tag, the </Body label> being an
17 ending body tag, and the Body label identifying the body data structure;

18 the header data being expressed in XML;

19 the message data being expressed in XML.

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21 **18. (CANCELLED).**
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1 **19. (PREVIOUSLY PRESENTED)** A method of delivering a message
2 over a network, the method comprising:

3 transmitting a message envelope of a message from an origin entity to a
4 destination entity via one or more intermediate entities on the network;

5 the message envelope having contents comprising data structures, each data
6 structure identifies which entity is intended to process the data structure when that
7 entity receives the message envelope over the network, wherein at least one of the
8 data structures includes an explicit request for the destination entity to perform a
9 task.

10
11 **20. (PREVIOUSLY PRESENTED)** A method as recited in claim 19,
12 wherein each data structure specifies whether the entity that is intended to process
13 the data structure must understand such data structure when that entity receives the
14 message envelope over the network.

15
16 **21. (ORIGINAL)** A method as recited in claim 19, wherein:
17 the message envelope has beginning and ending envelope tags;
18 the contents of the message envelope is between the envelope tags.

19
20 **22. (PREVIOUSLY PRESENTED)** A method as recited in claim 19,
21 wherein the contents include:

22 a header data structure;

23 a body data structure, the body data structure including message data.

1 **23. (ORIGINAL)** A method as recited in claim 22, wherein:

2 the header data structure has beginning and ending header tags;

3 the body data structure has beginning and ending body tags.

4
5 **24. (ORIGINAL)** A method as recited in claim 22, wherein:

6 the header data structure is intended for at least one intermediate entity;

7 the body data structure is intended for a destination entity.

8
9 **25. (PREVIOUSLY PRESENTED)** A method as recited in claim 19,
10 wherein the data structures lack executable instructions for performing the task.

11
12 **26. (ORIGINAL)** A method as recited in claim 19, wherein at least one
13 of the data structures includes a request for an intermediate entity to perform a
14 task.

15
16 **27. (ORIGINAL)** A method as recited in claim 19, wherein the data
17 structures are expressed in a markup language.

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19 **28. (ORIGINAL)** A method as recited in claim 19, wherein the data
20 structures are expressed in XML.

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22 **29. (ORIGINAL)** A method as recited in claim 19 further comprising:
23 formatting the message envelope for sending over a network using HTTP;
24 sending the message envelope to an entity on the network by using HTTP.

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1 30. **(ORIGINAL)** A method as recited in claim 19 further comprising:
2 binding the message envelope into a HTTP request;
3 sending the message envelope to an entity on the network by using HTTP.

4
5 31. **(ORIGINAL)** A method as recited in claim 19 further comprising:
6 binding the message envelope into a HTTP response;
7 sending the message envelope to an entity on the network by using HTTP.

8
9 32. **(ORIGINAL)** A method as recited in claim 21, wherein the
10 envelope tags identify the message envelope.

11
12 33. **(PREVIOUSLY PRESENTED)** A method as recited in claim 23,
13 wherein the header tags identify the header data structure.

14
15 34. **(PREVIOUSLY PRESENTED)** A method as recited in claim 23,
16 wherein the body tags identify the body data structure.

1 **35. (PREVIOUSLY PRESENTED)** A method as recited in claim 22,
2 wherein the message envelope has the following format:

3 <Envelope label>

4 <Header label>

5 *header data*

6 </Header label>

7 <Body label>

8 *message data*

9 </Body label>

10 </Envelope label>

11 the <Envelope label> being a beginning envelope tag, the </Envelope
12 label> being an ending envelope tag, and the Envelope label identifying the
13 message envelope;

14 the <Header label> being a beginning header tag, the </Header label> being
15 an ending header tag, the Header label identifying the header data structure;

16 the <Body label> being a beginning body tag, the </Body label> being an
17 ending body tag, and the Body label identifying the body data structure;

18 the header data being expressed in XML;

19 the message data being expressed in XML.

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21 **36. (CANCELLED)**
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1 **37. (PREVIOUSLY PRESENTED)** A method of parsing a message
2 received by a receiving entity over a network from a sending entity, the method
3 comprising:

4 parsing a message envelope;
5 parsing contents of the message envelope, the contents comprising data
6 structures, each data structure identifies which entity is intended to process the
7 data structure when that entity receives the message envelope over the network,
8 wherein at least one of the data structures includes an explicit request for the
9 receiving entity to perform a task.

10
11 **38. (PREVIOUSLY PRESENTED)** A method as recited in claim 37,
12 wherein each data structure specifies whether the entity that is intended to process
13 the data structure must understand such data structure when that entity receives the
14 message envelope over the network.

15
16 **39. (PREVIOUSLY PRESENTED)** A method as recited in claim 38
17 further comprising if the entity that is intended to process the data structure does
18 not understand such data structure, sending a response message to the sending
19 entity that indicates that the entity did not understand such data structure.

20
21 **40. (ORIGINAL)** A method as recited in claim 37 further comprising
22 sending a response message to the sending entity on the network.

1 **41. (ORIGINAL)** A method as recited in claim 37, wherein:
2 the message envelope has beginning and ending envelope tags;
3 the contents of the message envelope is between the envelope tags.

4
5 **42. (PREVIOUSLY PRESENTED)** A method as recited in claim 37,
6 wherein the contents include:

7 a header data structure;
8 a body data structure, the body data structure including message data.

9
10 **43. (ORIGINAL)** A method as recited in claim 42, wherein:
11 the header data structure has beginning and ending header tags;
12 the body data structure has beginning and ending body tags.

13
14 **44. (ORIGINAL)** A method as recited in claim 42, wherein:
15 the header data structure is intended for at least one intermediate entity;
16 the body data structure is intended for a destination entity.

17
18 **45. (PREVIOUSLY PRESENTED)** A method as recited in claim 37,
19 wherein the data structures lack executable instructions for performing the task.

20
21 **46. (ORIGINAL)** A method as recited in claim 37, wherein the data
22 structures are expressed in a markup language.

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24 **47. (ORIGINAL)** A method as recited in claim 37, wherein the data
25 structures are expressed in XML.

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2 **48. (CANCELLED)**
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4 **49. (PREVIOUSLY PRESENTED)** A computer-readable storage
5 medium having computer-executable instructions that, when executed by a
6 computer, performs a method of formatting a message for exchange between
7 entities on a network, the method comprising:

8 generating a message envelope;

9 generating contents of the message envelope, the contents comprising data
10 structures, each data structure identifies which entity is intended to process the
11 data structure when that entity receives the message envelope over the network,
12 wherein at least one of the data structures includes an explicit request for that
13 entity to perform a task.
14

15 **50. (PREVIOUSLY PRESENTED)** A computer-readable storage
16 medium having computer-executable instructions that, when executed by a
17 computer, performs a method of delivering a message between entities on a
18 network, the method comprising:

19 transmitting a message envelope of a message from an origin entity to a
20 destination entity via one or more intermediate entities on the network;

21 the message envelope having contents comprising data structures, each data
22 structure identifies which entity is intended to process the data structure when that
23 entity receives the message envelope over the network, wherein at least one of the
24 data structures includes an explicit request for the destination entity to perform a
25 task.

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2 **51. (PREVIOUSLY PRESENTED)** A computer-readable storage
3 medium having computer-executable instructions that, when executed by a
4 computer, performs a method of parsing a message received by a receiving entity
5 over a network from a sending entity, the method comprising:

6 parsing a message envelope of a message;
7 parsing contents of the message envelope, the contents comprising data
8 structures, each data structure identifies which entity is intended to process the
9 data structure when that entity receives the message envelope over the network,
10 wherein at least one of the data structures includes an explicit request for the
11 receiving entity to perform a task.

12
13 **52. (PREVIOUSLY PRESENTED)** A message exchange apparatus
14 comprising:

15 a processor;

16 a message formatter executable on the processor to:

17 generate a message envelope of a message;

18 generate contents of the message envelope, the contents comprising
19 data structures, each data structure identifies which entity is intended to
20 process the data structure when that entity receives the message envelope
21 over the network, wherein at least one of the data structures includes an
22 explicit request for that entity to perform a task.

1 **53. (PREVIOUSLY PRESENTED)** A message exchange apparatus
2 comprising:

3 a processor;

4 a message deliverer executable on the processor to:

5 transmit a message envelope of a message from an origin entity to a
6 destination entity via one or more intermediate entities on the network;

7 the message envelope having contents comprising data structures,
8 each data structure identifies which entity is intended to process the data
9 structure when that entity receives the message envelope over the network,
10 wherein at least one of the data structures includes an explicit request for
11 the destination entity to perform a task.

12
13 **54. (PREVIOUSLY PRESENTED)** A message exchange apparatus
14 comprising:

15 a processor;

16 a message parser executable on the processor to:

17 parse a message envelope of a message;

18 parse contents of the message envelope, the contents comprising
19 data structures, each data structure identifies which entity is intended to
20 process the data structure when that entity receives the message envelope
21 over the network, wherein at least one of the data structures includes an
22 explicit request for that entity to perform a task.

1 **55. (PREVIOUSLY PRESENTED)** A message envelope generated in
2 accordance with the following acts:

3 providing a sending entity in communication with a network of entities;
4 generating contents of the message envelope of a message, the contents
5 comprising:

6 a header data structure which identifies an intermediate entity as that which
7 is intended to process the header data structure and whether that intermediate
8 entity must understand such data structure; and

9 a body data structure which identifies a destination entity as that which is
10 intended to process the body data structure,

11 wherein at least one of the data structures includes an explicit request for at
12 least one of the entities to perform a task.

13
14 **56. (ORIGINAL)** A message envelope as recited in claim 55, wherein
15 the data structures are expressed in a markup language.

16
17 **57. (ORIGINAL)** A message envelope as recited in claim 55, wherein
18 the data structures are expressed in XML.

1 **58. (PREVIOUSLY PRESENTED)** A modulated data signal having
2 computer-executable instructions embodied thereon comprising:

3 a header data structure which identifies an intermediate entity, over a
4 network of entities, as that which is intended to process the header data structure
5 and whether that intermediate entity must understand such data structure; and

6 a body data structure which identifies the destination entity as that which is
7 intended to process the body data structure,

8 wherein at least one of the data structures includes an explicit request for at
9 least one of the entities to perform a task.

10
11 **59. (ORIGINAL)** A modulated data signal as recited in claim 58,
12 wherein the data structures are expressed in a markup language.

13
14 **60. (ORIGINAL)** A modulated data signal as recited in claim 58,
15 wherein the data structures are expressed in XML.

1 **61. (PREVIOUSLY PRESENTED)** A computer-readable medium
2 having a data structure embodied thereon comprising:

3 a header data-structure section which identifies an intermediate entity, over
4 a network of entities, as that which is intended to process the header data-structure
5 section and whether that intermediate entity must understand such data-structure
6 section; and

7 a body data-structure section which identifies the destination entity as that
8 which is intended to process the body data-structure section,

9 wherein at least one of the data structures includes an explicit request for at
10 least one of the entities to perform a task.

11
12 **62. (ORIGINAL)** A computer-readable medium as recited in claim 61,
13 wherein the data-structure sections are expressed in a markup language.

14
15 **63. (ORIGINAL)** A computer-readable medium as recited in claim 61,
16 wherein the data-structure sections are expressed in XML.

17
18 **64. (PREVIOUSLY PRESENTED)** A method of formatting a
19 message for exchange between entities on a network, the method comprising:

20 generating a message envelope of a message, the message comprising at
21 least one explicit request by one entity on a network of another entity on the
22 network to perform a task;

23 generating contents of the message envelope, the contents comprising data
24 structures, each data structure identifies which entity is intended to process the
25 data structure when that entity receives the message envelope over the network.

1
2 **65. (PREVIOUSLY PRESENTED)** A method as recited in claim 64,
3 wherein each data structure specifies whether the entity that is intended to process
4 the data structure must understand such data structure.

5
6 **66. (PREVIOUSLY PRESENTED)** A method as recited in claim 64,
7 wherein each data structure specifies whether the entity that is intended to process
8 the data structure must respond if it does not understand such data structure.

9
10 **67. (PREVIOUSLY PRESENTED)** A method as recited in claim 64,
11 wherein:

12 the message envelope has beginning and ending envelope tags;

13 the contents of the message envelope is between the envelope tags.

14
15 **68. (PREVIOUSLY PRESENTED)** A method as recited in claim 64,
16 wherein the contents include:

17 a header data structure;

18 a body data structure, the body data structure including message data.

19
20 **69. (PREVIOUSLY PRESENTED)** A method as recited in claim. 68,
21 wherein:

22 the header data structure has beginning and ending header tags;

23 the body data structure has beginning and ending body tags.
24
25

1 **70. (PREVIOUSLY PRESENTED)** A method as recited in claim 68,
2 wherein:

3 the header data structure is intended for at least one intermediate entity;

4 the body data structure is intended for a destination entity.

5
6 **71. (PREVIOUSLY PRESENTED)** A method as recited in claim 64
7 further comprising sending the message envelope to an entity on a network.

8
9 **72. (PREVIOUSLY PRESENTED)** A method as recited in claim 64,
10 wherein at least one of the data structures includes a request for an entity to
11 perform a task, wherein the data structures lack executable instructions for
12 performing the task.

13
14 **73. (PREVIOUSLY PRESENTED)** A method as recited in claim 64,
15 wherein the data structures are expressed in a markup language.

16
17 **74. (PREVIOUSLY PRESENTED)** A method as recited in claim 64,
18 wherein the data structures are expressed in XML.

19
20 **75. (PREVIOUSLY PRESENTED)** A method as recited in claim 64
21 further comprising:

22 formatting the message envelope for sending over a network using HTTP;

23 sending the message envelope to an entity on the network by using HTTP.

1 **76. (PREVIOUSLY PRESENTED)** A method as recited in claim 64
2 further comprising:

3 binding the message envelope into a HTTP request;

4 sending the message envelope to an entity on the network by using HTTP.

5
6 **77. (PREVIOUSLY PRESENTED)** A method as recited in claim 64
7 further comprising:

8 binding the message envelope into a HTTP response;

9 sending the message envelope to an entity on the network by using HTTP.

10
11 **78. (PREVIOUSLY PRESENTED)** A method as recited in claim 69,
12 wherein the header tags identify the header data structure.

13
14 **79. (PREVIOUSLY PRESENTED)** A method as recited in claim 69,
15 wherein the body tags identify the body data structure.